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Imagery analysis report

Indications of Construction for a New Phased-Array Radar in the USSR (S)

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INDICATIONS OF CONSTRUCTION FOR A NEW PHASED-ARRAY RADAR IN THE USSR (S)

1. (TSR) A new ballistic missile early warning (BMEW) phased-array radar system, similar to the Lyaki Phased-Array Radar Facility [] and the Pechora Phased-Array Radar Facility [] may be under construction in the USSR (Figure 1). Possible construction of the radar is suggested by the large increase in the number of phased-array radar environmental cover segments and shipping crates observed at the Gomel Electronics Plant []

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2. (TSR) The phased-array radar antenna components at Gomel (Figure 3) are similar to the components used at Lyaki (Figures 4 and 5) and Pechora. Based on observations of the Lyaki and Pechora transmitting antennas, 18 environmental cover sections were required to cover the face of the transmitting antenna. Each environmental cover section consists of six environmental cover central segments and six environmental cover side segments (Figure 4). A detailed description of antenna components and construction techniques observed at Lyaki and Pechora is provided in an Office of Imagery Analysis report, []

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3. (TSR) It is significant to note that [] 108 environmental cover side segments—the number required for a complete transmitting antenna—were observed at Gomel. At that time the BMEWs phased-array antennas at Pechora were externally complete, and the antennas at Lyaki were in the late stage of construction. The presence of 108 environmental cover side segments suggests that a new BMEW radar is or will be under construction shortly in the USSR.

4. (TSR) Currently a gap exists in the BMEW phased-array radar coverage in the northeast part of the USSR. Therefore, possible locations for the new radar are Khatanga and Tiksi. However, Novosibirsk, Cherkessk, Odessa, Moscow, and Leningrad are also possible locations.

DOCUMENT

1. CIA/OIA, [] IS 79-10043K *An Imagery Analysis of the BMEW Radars at Pechora and Lyaki, USSR (TSR)*, Jun 79 (TOP SECRET R [])

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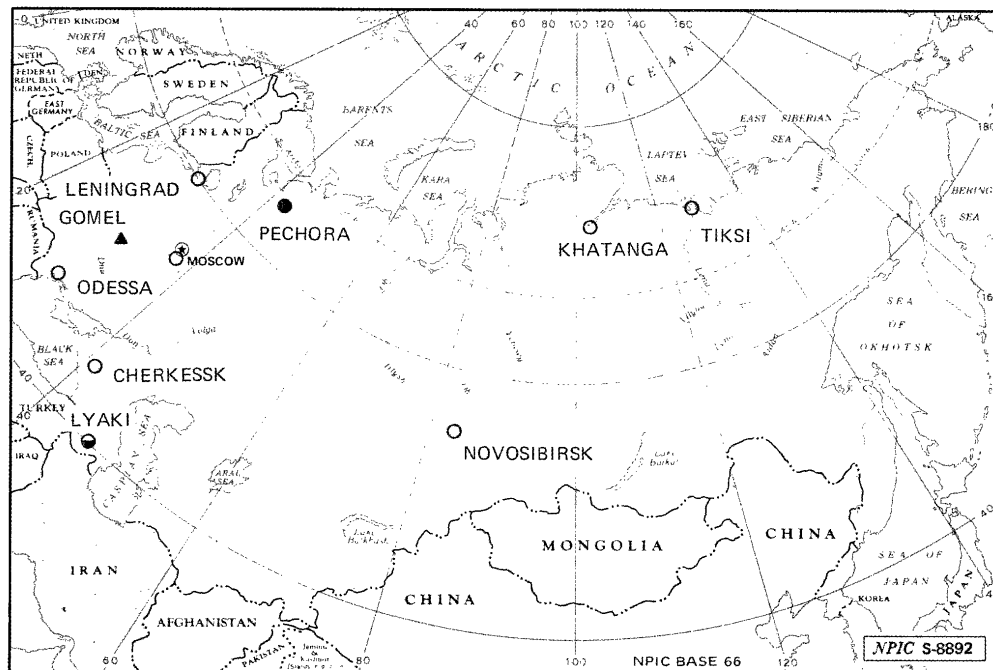


FIGURE 1. LOCATIONS OF SOVIET BMEW RADAR FACILITIES AND POSSIBLE LOCATIONS FOR A NEW RADAR

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